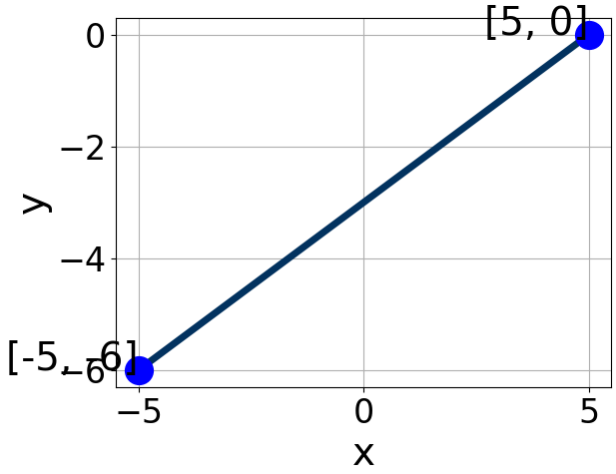
1. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-0.1, 4.5]$, $B \in [4.6, 8]$, and $C \in [-16, -12]$

B. $A \in [-1.8, -0.5]$, $B \in [-1.9, 0.2]$, and $C \in [3, 8]$

C. $A \in [-1.8, -0.5]$, $B \in [0.3, 2.3]$, and $C \in [-8, 2]$

D. $A \in [-5.1, -2.3]$, $B \in [4.6, 8]$, and $C \in [-16, -12]$

E. $A \in [-0.1, 4.5]$, $B \in [-5.7, -4.3]$, and $C \in [10, 21]$

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2. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b.

Perpendicular to $7x - 8y = 5$ and passing through the point $(10, 9)$.

A. $m \in [-1.6, -0.99]$ $b \in [19.4, 20.9]$

B. $m \in [-1.6, -0.99]$ $b \in [-21.4, -18.8]$

C. $m \in [-1.6, -0.99]$ $b \in [-1.3, 0.8]$

D. $m \in [-1, -0.6]$ $b \in [19.4, 20.9]$

E. $m \in [0.64, 1.8]$ $b \in [-3.4, -1.8]$

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3. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{-6x-5}{7} - \frac{-7x+5}{2} = \frac{4x-5}{4}$$

A. $x \in [-1.2, -0.5]$

B. $x \in [2.8, 3.7]$

C. $x \in [-3, -1.3]$

D. $x \in [0.1, 2.9]$

E. There are no real solutions.

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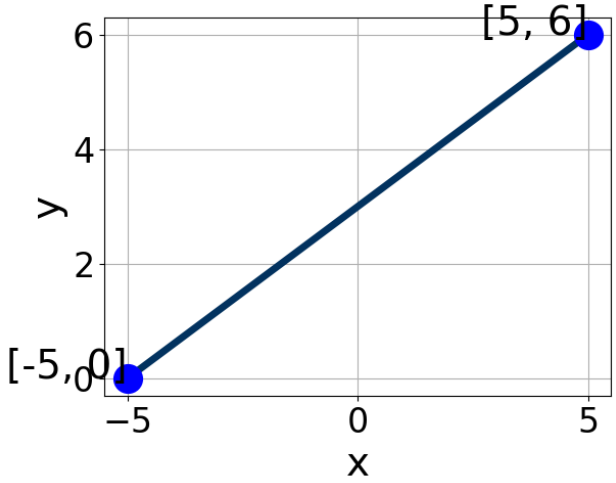
4. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-1.6, 2.4]$, $B \in [-2.4, -0.9]$, and $C \in [-3, 2]$

B. $A \in [-1.6, 2.4]$, $B \in [0.2, 1.3]$, and $C \in [-1, 4]$

C. $A \in [-4, -1]$, $B \in [4.1, 7.1]$, and $C \in [15, 20]$

D. $A \in [2, 5]$, $B \in [4.1, 7.1]$, and $C \in [15, 20]$

E. $A \in [2, 5]$, $B \in [-6.2, -4.8]$, and $C \in [-17, -14]$

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5. Find the equation of the line described below. Write the linear equation

in the form $y = mx + b$ and choose the intervals that contain m and b.

Parallel to $5x + 9y = 15$ and passing through the point $(-4, 8)$.

A. $m \in [-1.2, -0.25]$ $b \in [11.1, 12.1]$

B. $m \in [-1.2, -0.25]$ $b \in [4.7, 7.7]$

C. $m \in [-1.2, -0.25]$ $b \in [-6.8, -4.5]$

D. $m \in [-2.76, -1.62]$ $b \in [4.7, 7.7]$

E. $m \in [0.28, 1.49]$ $b \in [10, 10.3]$

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6. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{-7x - 6}{6} - \frac{-7x - 6}{5} = \frac{-3x - 7}{7}$$

A. $x \in [-1.16, 0.31]$

B. $x \in [-11.22, -9.83]$

C. $x \in [0.78, 2.83]$

D. $x \in [-2.53, -1.78]$

E. There are no real solutions.

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7. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(-3, 6) \text{ and } (7, -11)$$

A. $m \in [-3.5, -0.8]$ $b \in [-0.4, 4.1]$

B. $m \in [-3.5, -0.8]$ $b \in [-19.6, -14.5]$

C. $m \in [1.6, 3]$ $b \in [-25.8, -21.7]$

D. $m \in [-3.5, -0.8]$ $b \in [-3.2, -0.1]$

E. $m \in [-3.5, -0.8]$ $b \in [6.1, 10.3]$

8. Solve the equation below. Then, choose the interval that contains the solution.

$$-12(5x - 2) = -9(15x + 7)$$

A. $x \in [-1.35, -1.05]$

B. $x \in [0.34, 0.63]$

C. $x \in [-0.53, -0.24]$

D. $x \in [-0.31, -0.12]$

E. There are no real solutions.

9. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(-8, 5) \text{ and } (8, 4)$$

A. $m \in [-0.4, -0.02]$ $b \in [12.97, 13.53]$

B. $m \in [0.04, 0.09]$ $b \in [3.45, 4.08]$

C. $m \in [-0.4, -0.02]$ $b \in [3.96, 4.57]$

D. $m \in [-0.4, -0.02]$ $b \in [-4.05, -3.8]$

E. $m \in [-0.4, -0.02]$ $b \in [-4.61, -4.44]$

10. Solve the equation below. Then, choose the interval that contains the solution.

$$-14(13x + 18) = -17(-4x - 9)$$

A. $x \in [-0.79, 0.13]$

B. $x \in [-1.73, -1.55]$

C. $x \in [-1.15, -0.65]$

D. $x \in [0.34, 0.59]$

E. There are no real solutions.